

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/578,839
Source: IFWP
Date Processed by STIC: 05/22/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/578,839

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | | |
|----|--|--|
| 1 | <div> <div> <div></div> <div>Wrapped Nucleics
Wrapped Aminos</div> </div> </div> | <p>The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent “wrapping.”</p> |
| 2 | <div>Invalid Line Length</div> | <p>The rules require that a line not exceed 72 characters in length. This includes white spaces.</p> |
| 3 | <div>Misaligned Amino
Numbering</div> | <p>The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.</p> |
| 4 | <div>Non-ASCII</div> | <p>The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.</p> |
| 5 | <div>Variable Length</div> | <p>Sequence(s)_____ contain n’s or Xaa’s representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.</p> |
| 6 | <div>PatentIn 2.0
“bug”</div> | <p>A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.</p> |
| 7 | <div>Skipped Sequences
(OLD RULES)</div> | <p>Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
This sequence is intentionally skipped
Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to include the skipped sequences.</p> |
| 8 | <div>Skipped Sequences
(NEW RULES)</div> | <p>Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000</p> |
| 9 | <div>Use of n’s or Xaa’s
(NEW RULES)</div> | <p>Use of n’s and/or Xaa’s have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n’s or Xaa’s are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.</p> |
| 10 | <div>Invalid <213>
Response</div> | <p><u>Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)</u></p> |
| 11 | <div>Use of <220></div> | <p>Sequence(s) ____ missing the <220> “Feature” and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in <220> to <223> section or use “chemically synthesized” as explanation. (See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</p> |
| 12 | <div>PatentIn 2.0
“bug”</div> | <p>Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.</p> |
| 13 | <div>Misuse of n/Xaa</div> | <p>“n” can only represent a single nucleotide; “Xaa” can only represent a single amino acid</p> |



IFWP

RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,839

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

3 <110> APPLICANT: INJE UNIVERSITY
 5 <120> TITLE OF INVENTION: CANCER CELL TARGETING GENE DELIVERY METHOD
 7 <130> FILE REFERENCE: Q94769
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/578,839
 C--> 9 <141> CURRENT FILING DATE: 2006-05-10
 9 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0079897
 10 <151> PRIOR FILING DATE: 1003-11-12
 12 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/000545
 13 <151> PRIOR FILING DATE: 2004-03-15
 15 <160> NUMBER OF SEQ ID NOS: 11
 17 <170> SOFTWARE: KopatentIn 1.71
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 36
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Env F primer
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 33 <211> LENGTH: 47
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Artificial Sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: 597LN primer
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 46 <211> LENGTH: 49
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: LC597 primer
 54 <400> SEQUENCE: 3
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 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 35
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial Sequence
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: Spike R2 primer

Does Not Comply
Corrected Diskette Needed

(pg -1, 3, 4 - 11)
wrapped
Sequences.
pls see pg - 3

36

47

49

67 <400> SEQUENCE: 4

68

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35

<110> APPLICANT: INJE UNIVERSITY
<120> TITLE OF INVENTION: CANCER CELL TARGETING GENE DELIVERY METHOD
<130> FILE REFERENCE: Q94769
<140> CURRENT APPLICATION NUMBER: US/10/578,839
<141> CURRENT FILING DATE: 2006-05-10
<150> PRIOR APPLICATION NUMBER: KR 10-2003-0079897
<151> PRIOR FILING DATE: 1003-11-12
<150> PRIOR APPLICATION NUMBER: PCT/KR2004/000545
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<220> FEATURE:
<223> OTHER INFORMATION: 597LN primer
<400> SEQUENCE: 2
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47

→ The number is wrapped down to the next line. Pls see glem 1 on Error Summary sheet.

↓
Same Error

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

<210> 8
<211> 786
<212> DNA
<213> Tag-72pS1

Invalid Response. L2137 Responses
can be either Artificial, Unknown
or Genus Species. Pls see
Item 10 on Error Summary
Sheet.

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

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PATENT APPLICATION: US/10/578,839

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Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

71 <210> SEQ ID NO: 5
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86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: ScFvLnkC primer
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99 <212> TYPE: DNA
100 <213> ORGANISM: SEATO type of GaLV Env glycoprotein
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103 <221> NAME/KEY: sig_peptide
104 <222> LOCATION: (1)..(126)
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113 <221> NAME/KEY: misc_feature
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115 <223> OTHER INFORMATION: transmembrain domain
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123
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127
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129
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131
tataagcaaa tcacctgggg agccataggg tgcagctacc ctcggttag gactagaatg 420
133
gcaagctcta ctttctacgt atgtccccgg gatggccgga ccctttcaga agctagaagg 480
135
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137

Same Error
wrappe
Sequence

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139						
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141						
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143						
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145						
ccagctgtgg	cagtaggtcc	tgacctcgtc	cttgtggaac	aaggacctcc	tagaacgtcc	840
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Same Error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,839

DATE: 05/22/2006

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

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155
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157
gaccggtgcc gctggggggac ccaaggaaag ctcaccctca ctgaggtctc aggacacggg 1200
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161
aattcctccg gagaccatca gtatctgctc cctccaacc atagctggtg ggcttgcagc 1320
163
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169
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181
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183
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191 <211> LENGTH: 786
192 <212> TYPE: DNA
193 <213> ORGANISM: Tag-72pS1
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (346)..(390)
198 <223> OTHER INFORMATION: (Gly4Ser)3 linker
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202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (739)..(777)
204 <223> OTHER INFORMATION: PreS1 Tag
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Same tem

212
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214
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218
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220
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222
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226
aagctgctca tttactgggc atctaccgga gaatccgggg tccctgaccg attcagtggc 600
228
agcgggtctg ggacagattt cactctcacc atcagcagcc tgcaggctga agatgtggca 660
230
gtttattact gtcagcaata ttattcctat ccgttgacgt tcggccaagg gaccaaggtg 720
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gcatag 786
237 <210> SEQ ID NO: 9
238 <211> LENGTH: 13
239 <212> TYPE: PRT
240 <213> ORGANISM: PreS1 epitope at C-terminal of Tag-72pS1

Same
Error

RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/578,839

TIME: 14:20:55

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

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244 1 5 10

247 <210> SEQ ID NO: 10

248 <211> LENGTH: 2871

249 <212> TYPE: DNA

250 <213> ORGANISM: Artificial Sequence

252 <220> FEATURE:

253 <223> OTHER INFORMATION: ScFv-GaLV Env GP chimeric peptide (FvGEL199) DNA

256 <400> SEQUENCE: 10

257

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259
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261
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263
tcccaaaactg gagacgttgt ctgggataca aaggcagtcc agcccccttg gacttggtgg 240
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267
ggaaccgatg tctcgtcttc taaacgagtc agacctccgg actcagacta tactgccgct 360
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gcaagctcta ctttctacgt atgtccccgg gatggccgga ccctttcaga agctagaagg 480
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299

Same
Error

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Same Error

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PATENT APPLICATION: US/10/578,839

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Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

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 367 Leu Arg His Gln Met Ser Pro Gly Ser Trp Lys Arg Leu Ile Ile Leu
 368 20 25 30
 370 Leu Ser Cys Val Phe Gly Gly Gly Gly Thr Ser Leu Gln Asn Lys Asn
 371 35 40 45
 373 Pro His Gln Pro Met Thr Leu Thr Trp Gln Val Leu Ser Gln Thr Gly
 374 50 55 60
 376 Asp Val Val Trp Asp Thr Lys Ala Val Gln Pro Pro Trp Thr Trp Trp
 377 65 70 75 80
 379 Pro Thr Leu Lys Pro Asp Val Cys Ala Leu Ala Ala Ser Leu Glu Ser
 380 85 90 95
 382 Trp Asp Ile Pro Gly Thr Asp Val Ser Ser Ser Lys Arg Val Arg Pro
 383 100 105 110
 385 Pro Asp Ser Asp Tyr Thr Ala Ala Tyr Lys Gln Ile Thr Trp Gly Ala
 386 115 120 125
 388 Ile Gly Cys Ser Tyr Pro Arg Ala Arg Thr Arg Met Ala Ser Ser Thr
 389 130 135 140
 391 Phe Tyr Val Cys Pro Arg Asp Gly Arg Thr Leu Ser Glu Ala Arg Arg
 392 145 150 155 160
 394 Cys Gly Gly Leu Glu Ser Leu Tyr Cys Lys Glu Trp Asp Cys Glu Thr
 395 165 170 175
 397 Thr Gly Thr Gly Tyr Trp Leu Ser Lys Ser Ser Lys Asp Leu Ile Thr
 398 180 185 190
 400 Val Lys Trp Asp Gln Asn Ser Gly Gly Gly Gly Ser Gln Val Gln Leu
 401 195 200 205
 403 Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val
 404 210 215 220

406 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp His Ala Ile His Trp
407 225 230 235 240
409 Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly Tyr Phe Ser
410 245 250 255
412 Pro Gly Asn Asp Asp Phe Lys Tyr Ser Gln Lys Phe Gln Gly Arg Val

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,839

DATE: 05/22/2006

TIME: 14:20:56

Input Set : A:\Q94769 sequence listing.txt

Output Set: N:\CRF4\05222006\J578839.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date